

## ABSTRACT OF THE DISCLOSURE

6 A check valve includes a valve plate having an inlet hole that draws in a low pressure fluid while being opened and closed by movement of a piston, and a discharging hole that discharges high pressure fluid while being opened and closed. A check valve in the form of a helical plate spring structure is coupled with the inlet hole and discharging hole of the valve plate. Interference of fluid flow is minimized while the valve is opened so that flowing efficiency is enhanced. The valve is closed smoothly along the helix so that noise and damage to the system caused by shock are prevented.

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